WHAT IS CLAIMED IS:

1. A network surveillance video camera system using a network comprising:

    a plurality of video camera units, each having a
5   different address and generating video data, each including motion detection means for detecting a motion of an image from said video data and communication means for communicating with said network to transmit said video data and an output of said motion detection means;

10 storing means, having a different address and communication means for communicating with said network, for receiving and storing said video data from said video camera units through said network;

    displaying means, having a different address and
15 communication means for communicating with said network, for displaying said video data from said storing means and said video camera units; and

    control server coupled to said network having a different address for automatically communicating with said
20 network to control said addresses of said video camera units, said storing means, and said display means.

2. A network surveillance video camera system as claimed in claim 1, wherein at least one of said camera units
25 further comprises a memory for storing said video data and

traffic detection means for detecting a traffic amount of

said network and comparing said traffic amount with a

reference and transmitting, to said displaying means, only

a portion of said video data regarding that said motion

5   detection means detects said motion when said traffic

amount exceeds said reference.

3.   A network surveillance video camera system as claimed

in claim 1, wherein at least one of said camera units

10   further comprises a microphone for generating sound data

and traffic detection means for detecting a traffic amount

of said network and comparing said traffic amount with a

reference and transmitting said sound data to said

displaying means as well as inhibiting to transmit said

15   video data when said traffic amount exceeds said reference

and said displaying means further comprises a speaker for

reproducing said sound data.

4.   A network surveillance video camera system as claimed

20   in claim 1, wherein at least one of said video camera units

further comprises a memory for storing said video data in

response to said motion detection means, sensor input means

for receiving a sensor signal, and thinning means for

thinning said video data in said memory to transmit said

25   thinned video data to said network.

5. A network surveillance video camera system as claimed
in claim 1, wherein each of said video camera units
includes:

5   sensor input means for receiving a sensor signal;
and

   alarm signal generation means for generating alarm
data in response to said sensor signal and said motion
detection means to transmit said alarm data and data
10 regarding said alarm data including said sensor signal to
said control server and said control server further
includes:

   data base for storing sets of said alarm data and
said data regarding said alarm data;

15   input means for inputting keyword data and mark data;

   searching means for searching said alarm data in
said data base in accordance with said keyword; and

   data base control means for storing said mark data
in response to said input means with correspondence with
20 one of said sets of said alarm data to inhibit searching
means from searching one of said sets of said alarm data
corresponding to the mark data.

6. A network surveillance video camera system as claimed
25 in claim 1, wherein each of said video camera units further

includes:

pivoting means for changing an optical axis of said video camera unit in accordance with control data; and

position data generation means for generating

5 position data of said pivoting means;

time data generation means for generating time data;

alarming means responsive to a sensor signal and said motion detection means for generating alarm data and alarm type data and transmitting said alarm data, said

10 alarm type data, alarm sub-data, including said position data and said time data, and said address of said video camera unit, and said control server further includes:

a table storing relation between addresses of said video camera units and data of installation places of said

15 video camera units; and

control means for receiving said alarm data from one of said video camera units, obtaining said position data and said data of installation place of said one of video camera units which transmits the alarm data, and

20 transmitting said alarm data, said alarm type data, said data of installation place of said one of said video camera units, and alarm sub-data including said position data and said time data, and said address of said one of video camera units, to said displaying means.

25

7. A network surveillance video camera system as claimed in claim 1, wherein at least one of said video camera units further comprises microphone means for receiving a sound signal around said each video camera unit and generating

5 sound data from said sound signal, comparing means for comparing a level of said sound data with a reference, alarm means for generating alarm data when said level exceeds said reference, and a switch for either transmitting said alarm data or not transmitting said alarm

10 data to said network.

8. A network surveillance video camera system as claimed in claim 1, at least one of said video camera units includes a CCD imager for successively generating said

15 video data with an exposure interval and brightness level detection means for detecting a brightness level, and exposure control means for changing said exposure interval from a first exposure interval to a second exposure interval which is longer than said first exposure interval

20 and for changing a transmitting interval of said video data from a first interval to a second interval which is longer than said first interval to prevent said video camera unit from transmitting the same field or frame of video data twice, when said brightness level is less than said

25 reference brightness level.

9.　A network surveillance video camera system as claimed in claim 1, wherein said control server generates an address table of said plurality of video camera units and

5　transmits said address table to said storing means, said storing means further comprises storing means for receiving and storing said address table and monitoring means for monitoring said network to receive and store said video data from said video camera units within said network

10　surveillance video camera system.

10.　A network surveillance video camera system as claimed in claim 1, wherein said control server generates an address table of said plurality of video camera units and

15　transmits said address table to said display means, said display means further comprises storing means for receiving and storing said address table and monitoring means for monitoring said network to receive and display said video data from said video camera units within said network

20　surveillance video camera system.

25